Spatial Solutions for Document and Information Management

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Outline

- Why Spatial Access to Data and Documents?
- What examples of an SE-EDMS are there?
  - (What are other Transportation organizations doing?)
- Recommended approach to a SE-EDMS

Why Spatial Access to Data and Documents?

*Users' demand for **data access** is **high!***

- **Use a map to locate information**
  - Transportation orgs business interest cover large areas, spatial relationships often are the most efficient method to locate information.
- **Ease of access, intuitive, A map based interface allows for rapid location of information by less knowledgeable users.**
- **Data is available across the enterprise**
- **Technology is available**
  - Network technology allows connecting to the data
  - Database technology allows data sharing and integration
  - GIS technology should pose no data integration problems
  - EDMSs today are easier to manage
  - Integration between spatial features and digital documents is technologically simple (spatial referencing systems)

Spatial Referencing Systems – Methods Supported

Pick a point in the map

- **Spatial Co-ordinate values in a Mapping Projection or Latitude and Longitude**

Pick a feature on the map

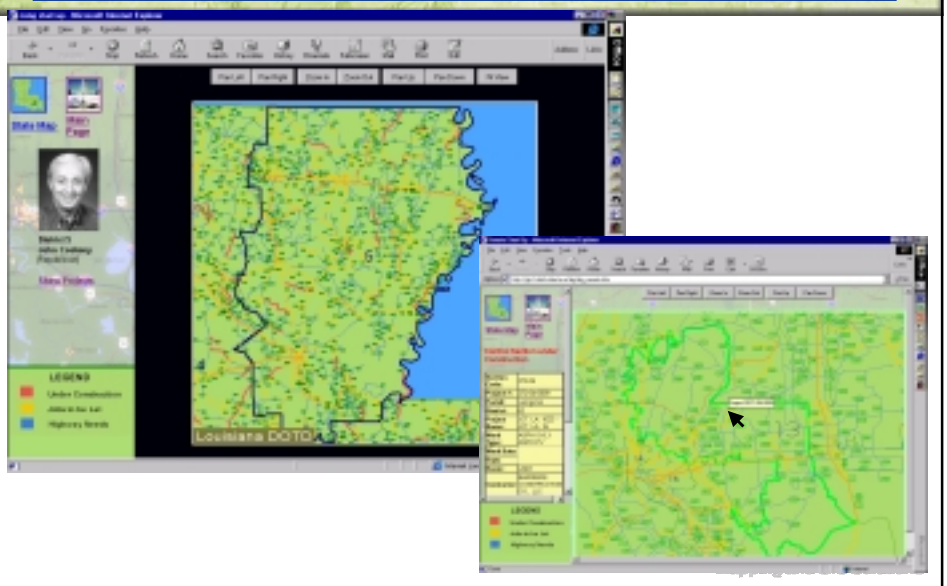
- **Graphically Displayable Element**

Dynamically create a feature on the map

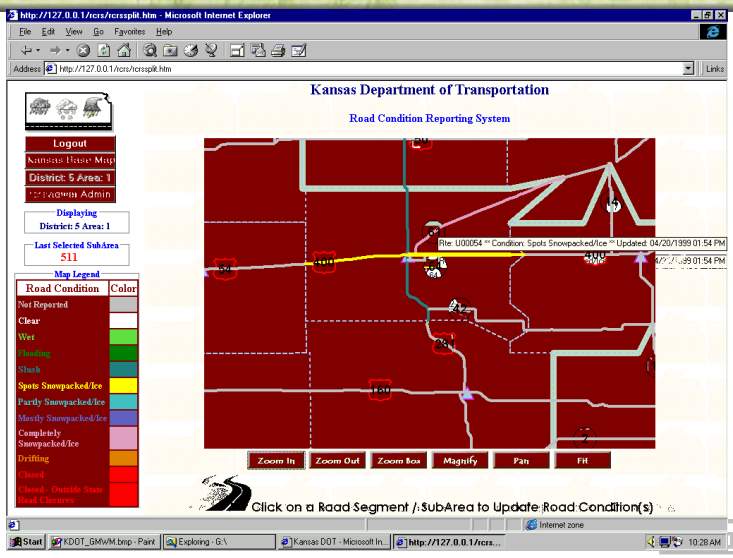
- **Linear Referencing System"Route" and "Milepost Range"**

Examples of SE-EMDS
- Using Web Technology
- Available Desktop/Web Technology

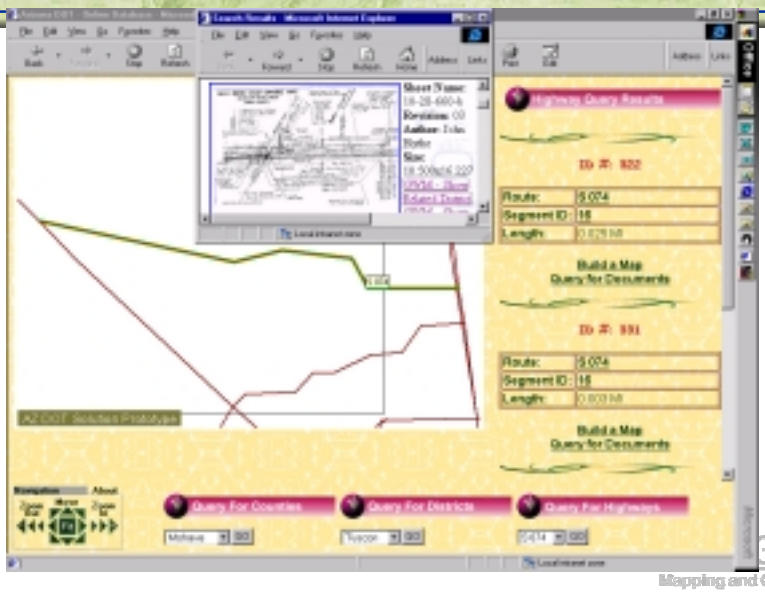
Project Information - Louisiana DOT



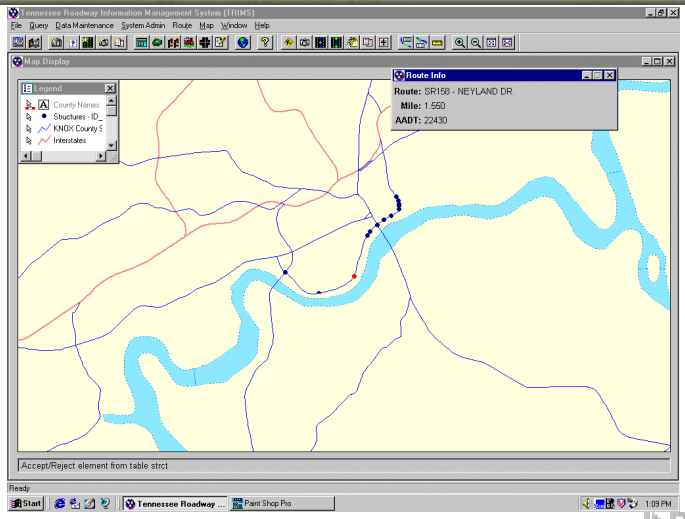
Road Conditions - Kansas DOT



Drawing Access - Arizona DOT



Asset Management
- Tennessee DOT TRIMS



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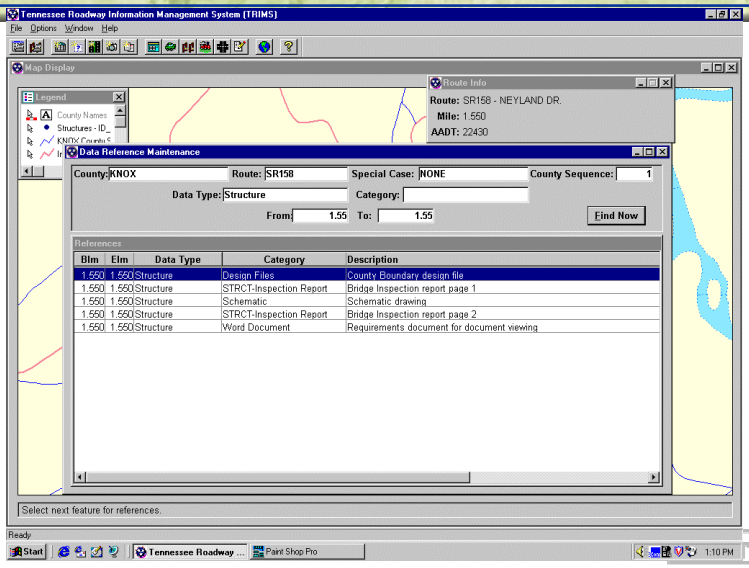
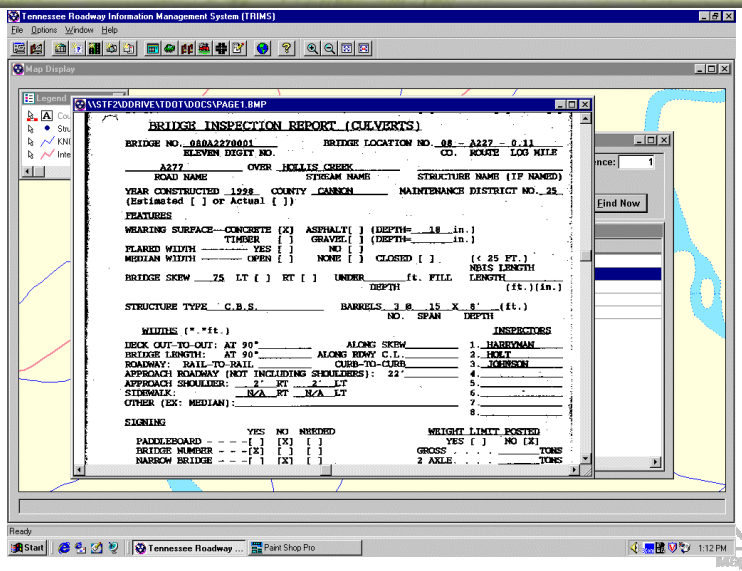
TRIMS
- Asset identification

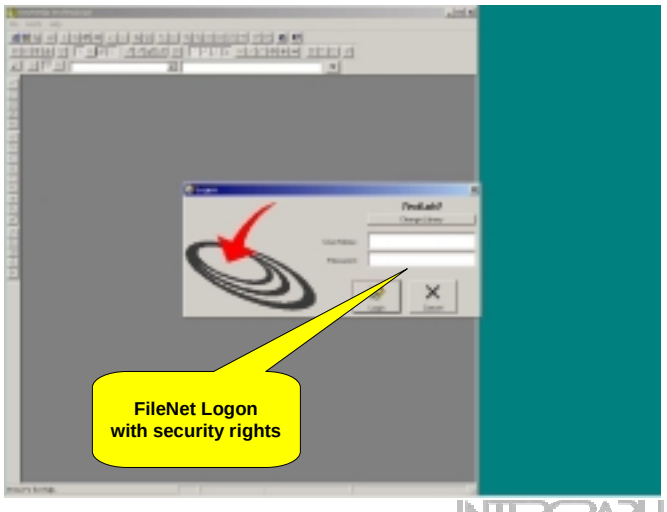


TRIMS
- Related Document Access



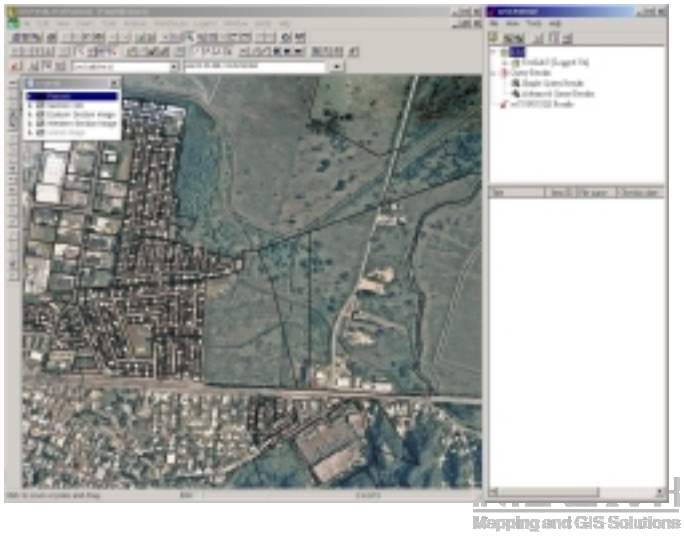
SE-EDMS
- “out of the box” Solution

The user selects **Logon** and must enter a valid User Name and Password as defined by the EDMS security system.



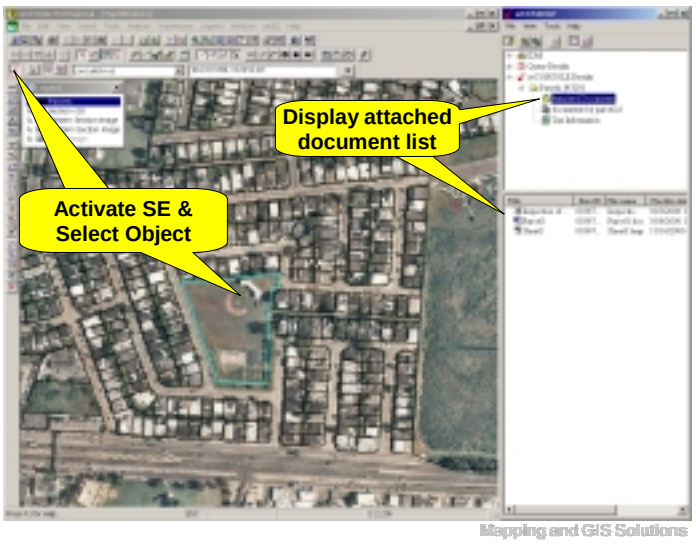
SE-EDMS
- GIS-EDMS Integration

The GeoWorkspace is retrieved from FileNET and loaded into GeoMedia



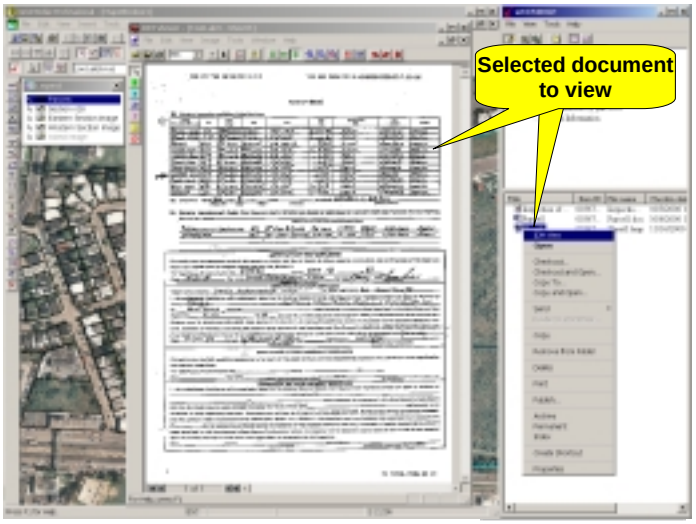
SE-EDMS
- Pick the feature –find related docs

The user can activate the "sx Icon" from tool bar and then locate any spatial object in the map window. This enables all documents that are attached, to be displayed in the document list box.



SE-EDMS
- Display the related Documents

If a user has the appropriate security rights, they can open or view the document



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SE-EDMS
- Recommendations

- Create an internal project team to research an SE-EDMS
- Pin point several candidate implementations that would benefit the organization
  - **Must be "in line" with the Enterprise Wide Vision for Information Sharing**
- Choose a systems integrator that knows your business
- Use a phased approach - start small and ***viewing only***
  - **Choose a set of business processes, documents and data** to implement within an EDMS that can achieve measurable results in a single funding period
- Involve a small set of users – satisfy them first, then broaden
  - A system developed without user participation, will not be used and the system will fail.
- Develop and implement a Disaster Recovery Plan
- Internally promote the HECK out of the SUCCESSFUL system!

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Summary

User Demand to access documents is HIGH!

- We are a document centric world!

Maps are intuitive everyone!

The technology is all available – today!

The integration of maps and documents provide a solution with mass appeal including:

• productivity gains

• and significant cost savings

Investigate a Spatially Enabled – EDMS TODAY!

Summary

Thanks to:

LA DOTD

Kansas DOT

Arizona DOT

Tennessee DOT

Intergraph Government Solutions Division
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